

SZARVAS, Ferenc, dr.; LAKATOS, Laszlo, dr.; DAVID, Margit, dr.; KOVACS,  
Kalman, dr.

Hypopituitarism with hyperlipemia. Orv. hetil. 103 no.34:1618-1619  
26 Ag '62.

1. Szegedi Orvostudományi Egyetem, I. Belklinika.  
(PITUITARY GLAND dis) (LIPIDS blood)

L. LAKATOS, Maria, dr.; MARKOS, Gyorgyne, munkatars

Some frequent diaphragmatic lesions in phthisiology. Tuberkulozis 16  
no.1:16-18 Ja '63.

1. Az Orszagos Koranyi TBC Intezet (igazgato: Boszormenyi Miklos dr.  
kandidatus, tudomanyos vezeto: Foldes Istvan dr. kandidatus) kozlemenye.  
(TUBERCULOSIS, PULMONARY) (DIAPHRAGM)  
(PATHOLOGY)

KAHAN, Agost, dr.; BENCZE, Gyorgy, dr.; OLAH, Miklos, dr. LAKATOS, Laszlo  
dr.

On the side effect of chloroquine therapy in rheumatoid ar-  
thritis and systemic lupus erythematosus. Orv. hetil. 105  
no.19:883-888 10 My'64

1. Szagedi Orvostudományi Egyetem, Szemklinika és I. Belklinika.

\*

LAKATOS, L.; BENCZE, Gy.; SOMOGYI, I.; SOMLO, Z.

Neurological and electroencephalographic studies in systemic lupus erythematosus and rheumatoid arthritis. Acta med. acad. sci. Hung. 21 no.3:247-255 '65.

1. First Department of Medicine, and Department of Neurology and Psychiatry, University Medical School, Szeged. Submitted July 15, 1964.

LAKATOS, Lajos, Dr.

Elements of the transportation process in motor truck traffic.  
Kozleked kozl 18 no.16:269-271 Ap '62.

LAKATOS, Maria L., dr.; LEVENDEL, László, dr.

Electrotherapeutic procedures applicable in sanatoria for pulmonary tuberculosis. Tuberk. kerdesei 6 no.3:46-48 Aug 53.

(ELECTROTHERAPY, in various dis.  
tuberc., pulm.)

(TUBERCULOSIS, PULMONARY, ther.  
electrother.)

~~LAKATOS, MARIA~~  
L-LAKATOS, Maria; SOLTESZ, Lajos

Problems of exercise therapy in spondylitis tuberculosis. Tuberkulozis  
10 no.5-6:113-116 May-June 57.

1. Az Allani Fodor Jozsef Tbc. Gyogyintezet, Budapest (igazgato foorvos:  
Risko Tibor dr.) kozlemenye.

(TUBERCULOSIS, SPINAL, ther.  
exercise ther. (Hun))

(EXERCISE THERAPY, in various dis.  
tuberc., spinal (Hun))

IAKATOS, Maris, Dr.; CHATEL, Andor, Dr.

Therapy of Bechterew's disease in simultaneous tuberculosis. Orv. hetil.  
99 no.23:789-790 8 June 58.

1. Az Orszagos Koranyi Tbc Intezet (igazgato: Boszormenyi Miklos dr.,  
tudomanyos vezeto: Foldes Istvan dr.) es a Fovarosi Furdogazgatóság  
(igazgato: Chatel Andor dr.) kozlemenye.

(SPONDYLITIS, ANKYLOSING, compl.  
tuberc., pulm., simultaneous ther. (Hun))

(TUBERCULOSIS, PULMONARY, compl.  
spondylitis, ankylosing, simultaneous ther. (Hun))



LAKATOS, Maria, Dr.

Results of 2 years of activities of a clinic for follow-up therapy of tuberculosis in Budapest. Tuberkulozis 14 no.1:20-22 Ja '61.

(TUBERCULOSIS hosp & clinics)

LAKATOS, Maria, dr.; MARKOS, Gyorgyne

How can we improve with the aid of physical therapy functional conditions of tuberculous patients before pneumonectomy? Tuberkulozis 14 no.2:49-51 F '61.

1. Az Orszagos Koranyi Tbc Intezet (igazgato: Boszormenyi Miklos dr. kandidatus, tudomanyos vezeto: Foldes Istvan dr. kandidatus) kozlemenye.

(PNEUMONECTOMY) (PHYSICAL THERAPY)

LAKATOS, Maria, dr.; LUKACS, Laszlo, dr.; LEVENDEL, Laszlo, dr.

Data on the origin on thoracic spasms studied by electromyography.  
Orv. hetil. 102 no.48:2278-2281 26 N '61.

1. Orszagos Koranyi Tbc Intezet es Fovarosi Tanacs V.B., Heine-Medin  
Utokezelo Korhaz es Rendelointezet.

(THORAX) (ELECTROMYOGRAPHY) (SPASM)

LEVENDEL, Laszlo, dr.; LAKATOS, Maria, dr.; VARADY, Tamas, dr.

The use of new tranquilizers (Frenolon, Melipramin, Hirepin) in the therapy of tuberculosis, with special reference to the alcoholic tuberculosis patients. Tuberkulozis 15 no.12:365-367 D '62.

1. Az Orszagos Koranyi Tbc Intezet (igazgato: Borszormenyi Miklos dr., tudmanyos vezeto: Foldes Istvan dr.) es a Tbc Utokezeto Rendeles (igazgato: Szakkay Antal dr.) kozlemenye.

(TUBERCULOSIS, PULMONARY)	(TRANQUILIZING AGENTS)
(IMIPRAMINE)	(CHLORPROMAZINE) (RESERPINE) (PRCMEHAZINE)

MADAR, Janos, dr.; LAKATOS, Maria, dr.; SZEPE, Lajos, dr.(Egyek); SZEKELYFOLDI, Jozsef, dr.; RACZ, Irma, dr.

Experience with the introduction of intensive measures against dysentery.  
Nepegeszsegugy 43 no.5:142-145 My '62:

1. Kozlemeny a Hajdu-Bihar megyei Kozegeszsegugyi-Jarranyugyi Allomasrol (igasgato: Madar Janos dr.).  
(DYSENTERY BACILLARY prev & control)

BORZORMENYI, Miklos, dr.; L. LAKATOS, Maria, dr.

Management of incurable tuberculosis. Tuberkulozis 16 no.2:41-44 F '63.

1. Az Orszagos Koranyi Tbc Intezet (igazgato-foorvos: Boszormenyi  
Miklos dr., tudomanyos igazgato: Foldes Istvan dr.) kozlemenye.  
(TUBERCULOSIS, PULMONARY) (HEMOPTYSIS) (BRONCHITIS)  
(DYSPOE) (PHYSICIAN-PATIENT RELATIONS) (ANALGESIA)

L. LAKATOS, Maria, dr.; MARKOS, Gyorgyne, munkatars

Therapy of diaphragmatic lesions in the clinical management of pulmonary tuberculosis. Tuberkulozis 16 no.3:74-77 Mr '63.

1. Az Orszagos Koranyi Tbc Intezet (igazgato: Boszormenyi Miklos dr.  
kandidatus, tudomanyos vezeto: Foldes Istvan dr. kandidatus) kozlemenye.  
(TUBERCULOSIS, PULMONARY) (DIAPHRAGM) (PREDNISOLONE)  
(PLEURISY) (PULMONARY EMPHYSEMA) (RESPIRATION)  
(PHYSICAL THERAPY) (ELECTROTHERAPY) (PHRENIC NERVE)

L. LAKATOS, Maria, dr.; MARKOS, Gyorgyne

The functioning of the diaphragm following lung surgery.  
Tuberkulozis 16 no.11:333-337 N '63.

1. Az Orszagos Koranyi Tbc Intezet (igazgato: Roszormenyi  
Miklos dr. kandidatus, tudomanyos igazgato: Foldes Istvan dr.  
kandidatus) kozlemenye.

(DIAPHRAGM) (PHYSIOLOGY) (PNEUMONECTOMY)  
(POSTOPERATIVE COMPLICATIONS) (PLEURISY)  
(EMPHYSEMA) (HEMATOMA)



LAKATOS, Maria, dr.; RACZ, Irma, dr.

The distribution of Shigella types and Sh. flexneri serotypes  
in Hajdu-Bihar county. Nepegeszsegugy 44 no.7:208-212 JI '63.

1. Közlemeny a Hajda-Bihar megyei Kosegeszsegugyi-Jarvanyugyi  
Allomasrol (igazgato: Madar Janos dr.).  
(SHIGELLA) (SHIGELLA SONNEI) (STATISTICS)

MADAR, Janos, dr.; LAKATOS, Maria, dr.; RACZ, Irma, dr.;  
SZEKELYFOLDI, Jozsef, dr.

Study on stepping-up the effectiveness of the control of  
abdominal typhus in Hajdu-Bihar County. Nepegeszsegugy 44  
no.9:268-271 S '63.

1. Kozlemeny a Hajdu-Bihar megyei Kozegeszssegugyi-Jarvanyugyi  
Allomasrol (igazgato: Madar Janos dr.).  
(TYPHOID) (MASS SCREENING TECHNIQS)  
(EPIDEMIOLOGY) (COMMUNICABLE DISEASE CONTROL)

BOJAN, Maria, dr.; LAKATOS, Maria, dr.

Bacteria-caused food poisoning in the laboratory examination material of the Public Health and Epidemiology Center in Hajdu-Bihar County. Nepszszegugy 44 no.10:308-311 0 '63.

1. Kozlemeny a Hajdu-Bihar megyei Kozegeszsegugyi-Jarvanyugyi Allomasrol (igazgato: Madar Janos dr.).

(SALMONELLA TYPHIMURIUM)

(STAPH INFECTIONS, GASTROINTESTINAL)

(FOOD INSPECTION) (SALMONELLA FOOD POISONING)

(BACILLUS CEREUS)

L. LAKATOS, Maria, dr.; MARKOS, Gyorgyne

Our experiences in the treatment of postoperative paradoxical diaphragmatic movement. Tuberkulózis 16 no.12:371-373 D '63.

1. Az Országos Koranyi Tbc Intezet (igazgato: Boszormenyi Miklos dr. kandidatus; tudomanyos vezeto: Foldes Istvan dr. kandidatus) kozlemenye.

BEDE, Lidia, dr.; L. LAKATOS, Maria, dr.; LEVENDEL, Laszlo, dr.

Use of anabolic hormones (nerobol, nercbolil) in the treatment of tuberculosis. Tuberkulozis 16 no.12:377-378 D '63.

1. Az Orszagos Koranyi Tbc Intezet (igazgato: Boszormenyi Miklos dr. kandidatus, tudomanyos vezeto: Foldes Istvan dr. kandidatus) es a Fovarosi Tanacs Tbc Gondoza Intezetenek (igazgato: Szakkay Antal dr.) kozlemenye.

KALLOS, Zsuzsa, dr.; LAKATOS, Maria, dr.; LEV ENDEL, Iaszlo, dr.

Data to the institutional treatment of "incurable" and "cured"  
patients. Tuberkulozis 16 no.12:378-381 D '63.

1. Orszagos Koranyi Tbc Intezet (Igazgato: Boszormenyi Miklos dr.  
kandidatus, tudomanyos vezeto: Foldes Istvan dr. kandidatus) kozle-  
menye.

HUNGARY

MUNNICH, Denes, Dr. ~~LAKATOS, Maria, Dr.~~ Hajdu-Bihar Megye Council Hospital, Infectious Ward (chief physician: MUNNICH, Denes, Dr) (Hajdu-Bihar Megyei Tanacs Korhaz, Fertozo Osztaly), Debrecen, and Hajdu-Bihar Megye Public Health and Epidemiological Station, Laboratory (chief physician: LAKATOS, Maria, Dr) (Hajdu-Bihar Megyei KOJAL -- Kozegeszsegugyi Jarvanyugyi Allomas --, Laboratorium).

"New Data on 'Leptospirosis East of the Tisza River'."

Budapest, Orvosi Hetilap, Vol 108, No 10, 5 Mar 67, pages 459-463.

Abstract: [Authors' Hungarian summary] Over a 7 year period (1957-63), 140 patients were treated for leptospirosis at the ward. More detailed examinations were carried out in 73 of the cases, in 83 per cent of which the tentative diagnosis was confirmed by the leptospira-agglutination-lysis reactions as well. The data indicate that this is an essentially occupational disease. Antibodies belonging to the pomona serotype could be demonstrated most frequently (60 per cent) in the serum of the patients. These cases ran their course in form of a benign serous meningitis. The most severe and severe forms of the disease were caused by sejro, pomona + sejro, and pomona + canicola + icterohaemorrhagia + sejro as well as by canicola serotypes of infection. Jaundice, presumably cholestatic hepatitis, occurred in 10 cases, acute interstitial nephritis (nephrosis) in 16 cases, 3 of which led to anuria. The penicillin G therapy applied could be called effective although the second wave of fever could not be prevented by it in several of the cases and,

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HUNGARY

Budapest, Orvosi Hetilap, Vol 108, No 10, 5 Mar 67, pages 459-463.

when given at an early stage of the disease, it also influenced the immune body response. 12 Eastern European, 8 Western references.

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UNGAR, Imre, dr.; BEKE, Csaba, dr.; LAKATOS, Pal. dr.

Surgical intervention in acute pulmonary hemorrhage. Orv. hetil.  
105 no.28:1311-1314 12 JI'64

1. Országos Koranyi Töc. Intezet, XXII. ker. Tanács, Tudokorház,  
Komárom Megyei Tanács Korháza, Sikvolgyi Tudosztaly.

LAKATOS, Rezső

The magnetic lock. Faipar 13 no.3:97 Mr '63.

LAKATOS, Sandor

Present state of industrial gas analysis. Meres automat 9 no.1:  
29-30 Ja '61.

1. Tudományos osztályvezető, Muszeripari Kutató Intézet

LAKATOS, Sándor

~~Infrared~~ gas analyzer. Meres automat 9 no.4:123-125 '61.

1. Tudományos osztályvezető, Muszeripari Kutató Intézet.

S/263/62/000/009/007/010  
1007/1207

AUTHORS: Honfi, Ferenc and Látkatos, Sandor,

TITLE: Miniature recording galvanometer

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 32. Izmeritel'naya tekhnika no. 9, 1962, 49, abstract 32.9.332 (Hungarian patent, Class 21e, 1-13, no. 147904, December 30, 1960)

TEXT: The self-recording measuring device, for which the present patent has been granted, differs from conventional designs, in that it has an attachable additional pointer located on the axis of the main pointer. The light beam of a point source is focused by means of two mirrors, through a 0.05 mm slit, upon the tip of the additional pointer. The shade of the tip is reflected on a photographic film or paper-strip printing on it a curve the shape of which is determined by the movement of the photographic layer, depending upon the external value to be recorded. It is shown that almost any measuring device can be converted into a self-recording instrument. A sketch of the device is given.

[Abstractor's note: Complete translation.]

Card 1/1

HONFI, Ferenc; LAKATOS, Sandor

Theory, practice and possibilities of well logging with a single electrode. Geofiz kozl 10 no.1/4:91-96 '62.

HUNGARY

LAJÓTÓB, T.; Institute of Biophysics, Medical University,  
Orvostudományi Egyetem Biofizikai Intézete, Pécs.

"Direct Current Conductivity of Dried Frog Muscle."

Budapest, Acta Physiologica Academiae Scientiarum Hungari-  
cae, Vol 22, No 3-4, 1962, pp 297-304.

Abstract: [English article; Author's English summary abridged] Muscles containing more than 6 per cent water show a close correlation between water content and conductivity. This correlation is almost absent in muscle with less than 4 to 6 per cent water. The temperature dependence of the conductivity was studied. It is proposed that electron transport occurs not by ion transport but as in a semiconductor. Of 22 references, one-third are Hungarian, and most of the others are Western.

1/1

MAHUNKA, Imre; LAKATOS, Tamas; FENYES, Tibor; KAROLYI, Gyula, fizikus;  
BAKOCZY, Mihaly, mernok; CSUKA, Imre, mernok; NAGY, Jozsef,  
mernok.

Charge sensitive amplifier system with low noise level for  
nuclear semiconductor spectrometer. ATOMKI kozl 5 no.2:  
65-75 '63



LAKATOS, TIBOR

HUNGARY/Chemical Technology. Chemical Products and Their      I-9  
Application - Silicates. Glass. Ceramics. Binders.

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 12669

Author : Lakatos Tibor

Title : Cellular Building Materials Solidifying in the Autoclave

Orig Pub : Autoklavban szilardított sejtesített építőanyagok.  
Magyar építőipar, 1956, 5, No 2, 62-70 (Hungarian)

Abstract : Description of the manufacture of gas-concrete, gas-silicate, foam-silicate and foam-concrete. Noted are the factors that affect the strength (proportion of cement, grain size of sand, amount of water).

Card 1/1

- 122 -

LAKATOS, T.

Direct current conductivity of dried frog muscle. Acta physiol. acad.  
sci. hung. 22 no.3/4:297-304 '62.

1. Institute of Biophysics, Medical University, Pecs.  
(MUSCLES)

LAKATOSH, B., kand.tekhn.nauk

Machines designed by voluntary innovators. NTO 5 no.2:43-44 F '63.  
(MIRA 16:3)

1. Predsedatel' Rostovskogo oblastnogo pravleniya Nauchno-tekhnicheskogo obshchestva bumazhnoy i derevoobrabatyvayushchey promyshlennosti.  
(Rostov Province--Furniture industry)

LAKATOSH, B. K.

DECLASSIFIED

1964

WOOD INDUSTRY

163

LAKATOSH, B.L., kand.tekhn.nauk

Using radioisotopes for automatic control of finishing operations.  
Der. prom. 7 no.10:15 0 '58. (MIRA 11:11)

1. Rostovskiy n/D inzhenerno-stroitel'nyy institut.  
(Wood finishing) (Radioisotopes--Industrial applications)

S/057/62/032/007/013/013  
B154/B104

AUTHORS: Lakatosh, G., and Bito, I. (Prague)

TITLE: Influence of the external resistance on the movement of layers in the positive column of discharges

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 7, 1962, 902-903

TEXT: The movement of discharge layers in the positive column as affected by external parameters has already been discussed in the papers cited (H. Yoshimoto, et al. JI. of the Phys. Soc. Jap., 13, 734, 1958; L. Pekarek. Czechosl. JI. Phys., 8, 32, 1958; A. V. Nedospasov, et al., ZhTF, XXX, 125, 1960). In the present paper the amounts of the amplitude of brightness, velocity, wavelength, and frequency of these layers are examined as functions of the external resistance. Experiments were carried out using a discharging tube (oxide cathode, nickel anode, diameter 36 mm, length 1200 mm, temperature of cooling water  $25 \pm 0.40^\circ\text{C}$ ) filled with argon or mercury vapor (pressure 3 mm Hg). The parameters were determined following the methods described by H. Yoshimoto et al. The results obtained for a constant discharging current of 100 ma with

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Influence of the external resistance ...

S/057/62/032/007/013/013  
B154/B104

negligible inductivity, show that in the range of 1000-3000  $\Omega$  with increasing external resistance the amplitude of brightness increases linearly, the velocity and the wavelength decrease linearly, the frequency remains constant. Frequency measurements for a constant discharging current of 20 ma and an external resistance of 10  $\Omega$  having an inductivity of 1.5 henry delivered frequency of the layer of 498 cps (in the case in which the inductivity was used) and 541 cps (in the case in which the inductivity was not used) respectively. The authors conclude from their results that in the range considered, the value of the external resistance influences the amplitude of brightness as well as the velocity and the wavelength of the layers, but not their frequency. There is 1 figure. ✓

SUBMITTED: November 21, 1960

Card 2/2

CHIOGOLYA, G.; BERAL, Kh.; VASIL'YEV, P.; POPOVICH, N.; KOSMIN, Anna;  
MADZHARU, M.; YAKOB, A.; LAKATOSH, L.; DIAKU, D.; PATRASHEU, S.

Determination of bismuth in Romanian drugs by means of EDTA titration.  
Spt.delo 8 no.6:67-69 H-D '59. (MIRA 13:4)

1. Iz Instituta po lintrolyu kachestva medikamentov Ministerstva  
zdravookhraneniya Rumynskoy Narodnoy Respubliki, Bukharest.  
(BISMUTH--ANALYSIS)



LAKAYEV, V.F., kand. tekhn. nauk, inzhener-kapitan 2- go rango

Controllability characteristics and maneuvering possibilities of  
submarines. Mor. sbor. 47 no.1:68-78 Ja '64. (MIRA 18:7)

LAKAZOVA, P. K.

AUTHOR: Lakazova, P.K., Candidate of Historical Sciences 3-11-8/17

TITLE: Women in the Vuzes of the Country (Zhenshchiny v vuzakh strany)

PERIODICAL: Vestnik Vysshey Shkoly, 1957, # 11, pp 48 - 53 (USSR)

ABSTRACT: The author states that the chances for women to get proper education were extremely limited during the pre-revolution period. The situation changed radically with the beginning of Socialism and the equality of rights for women in education and social and political life. In 1956/57, the number of female students in vuzes amounted to 52%. The participation of women in evening and correspondence courses amounted in 1955/56 to 50,8%. The author quotes some figures illustrating the percentage of women students in vuzes in 1955/56: 75% in vuzes of the food industry, 74,5% in vuzes of the light and textile industry, in medical vuzes - more than 70%; in universities and pedagogical institutes - 67%. More than 1,500 female students are trained at the Moscow Academy of Agriculture imeni Timiryazev; 175 female dotsents are working at this institute. The number of female scientists is increasing steadily. At present there are 19,000 women holding scientific degrees. Scientific pedagogical activity in vuzes

Card 1/2

Women in the Vuzes of the Country

3-11-8/17

is performed by more than 40,000 women, or 35% of the teaching staff. About 100 women are directors or deputy directors in vuzes, more than 190 are faculty deans and almost 2,000 are holding chairs in higher educational establishments. More than 1,000 women perform scientific-pedagogical work at the Moscow University, among them are 32 doctors and more than 470 candidates of sciences, including 27 professors and 155 dotsents. The author enumerates some outstanding female scientists: P.Ya. Kochina (Member-Correspondent of the USSR Academy of Sciences, Professor at the Moscow University) conducting research on hydrodynamics; Professor V.A. Larina, Doctor of Technical Sciences, concentrated her investigations on the extraction of liquid fuel from coal; she is the head of the Scientific Research Institute of Physics and Chemistry at Irkutsk University. M.T. Grekhova, a radio-physicist of the Scientific Research Institute of Radiophysics at the Gor'kiy University, is a Professor-Doctor of physico-mathematical sciences.

There is one photograph.

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Card 2/2

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PROCESSES AND PROPERTIES INDEX																			
<p><b>CA LAKEDEMONSKIY, A.Y.</b></p> <p>The heat effect of distribution. V. K. Perakhe and A. V. Lashchinskii. <i>J. Gen. Chem.</i> (U. S. S. R.) 9, 170-13 (1939).—The expl. part of the investigation consisted in the detn. of the heat effect and of the distribution coeff. for the system water-Am alc. (solvent) and AcOH (solute). The substances used were: ordinary distd. water, Am alc. (the 128-130° fraction; one fraction for each expt.), and 100% glacial AcOH. Into a 0.5-l. Dewar's flask (in a glass jar and isolated from it by a layer of cotton) were introduced 100 ml. of water and 100 ml. of Am alc., and the soln. was stirred until a finely dispersed system was obtained. The temp. was noted expt. was performed at 17 ± 1°. The temp. was noted on a Beckmann thermometer every 30 sec. for 10 min. After that 30-31 g. of AcOH was added and the temp. change detd. for 10 min. The heat capacity of water was taken as 1.000, of Am alc. as 0.854, and of AcOH as 0.484. The mean expl. error was calcd. from <math>\bar{S} = \sqrt{S/n-1}</math> where <math>\bar{S}</math> = 2 cal. where <math>S</math> = sum of the squares of the errors of the individual results, <math>n</math> = no. of the results. Thus the distribution heat effect at 17 ± 1° was found to be equal to 214 ± 2 cal. per mol. For the distribution coeff. detn. 100 ml. each of mutually satd. water and Am alc. were placed in a thermostat. To the soln. was added 30 ml. of AcOH and the liquid was shaken for 30 min. After shaking the vol. of both layers were measured; samples were taken from the water layer, and titrated with 0.1 N NaOH soln. The mean <math>K = A/W</math> values obtained at 13, 17, and 30° were 0.913 ± 0.003, 0.917 ± 0.003, and 0.930 ± 0.008, resp. The change of vol. <math>\Delta V</math> of the solvents during the distribution of AcOH attained 7-8%. The main reason for the change in heat effect with temp. is the change in the mutual soly. in the presence of a third substance. From the expl. results the formula for the heat effect of the distribution of AcOH between water and any alc. was found to be <math>U = 608.2 - 0.3T + 0.0063T^2</math>, and from this a distribution coeff. curve was constructed. W. H. Hens</p> <p>Lab. Phys. Chem., Moscow Inst. Non-ferrous Metals + Gold.</p>																			
<p>ASD, SLA METALLURGICAL LITERATURE CLASSIFICATION</p> <p>100000 MAY 1951</p> <p>100000 MAY 1951</p>																			

Smelting ovens with jetless ceramic burners. A. V. Lashchenko. *Lit. i inzh. Prikladn. 1954, No. 9, 14-17*. Referat: *Zh. Khim.* 1955, Absit. No. 58119. The jetless surface ceramic gas burners used for melting Sn and babbitt for about 6 yrs. have many advantages over the ordinary gas burners; fast heating, relatively small gas consumption, and possible automatic temp. control of the oven. The heat capacity of the ceramic burners is regulated in the range 1500-80,000 cal./hr. Described in detail are the construction of the burners, the arrangement for the gas-air mixt. prepa., explosion safeguards during the flame propagation from the burners, and smooth temp. control within  $\pm 15^\circ$ . N. Vasilev.

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DUBINSKIY, S.A.; ROSSEL'S, N.O.; LAKEDEMONSKIY, A.V.; ANOPOVA, A.I.;  
KHAKIMDZHANOVA, M.K.

Effect of nickel on solders. TSvet.met.27 no.3:50-55 My-Je '54.  
(MIRA 10:10)

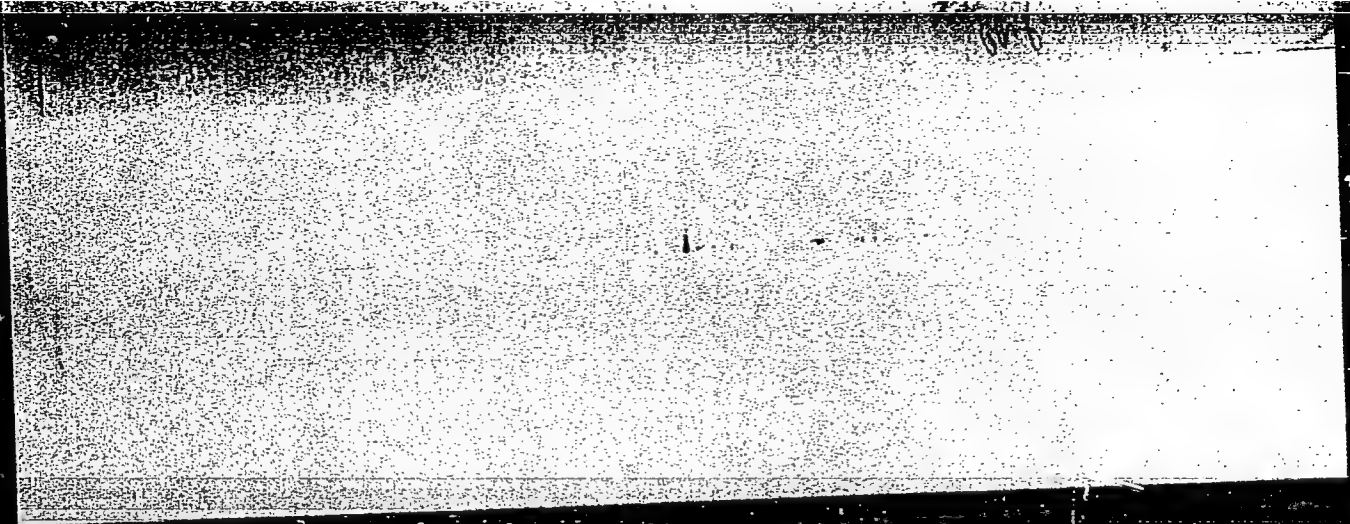
1. TSentral'nyy nauchno-issledovatel'skiy institut olovyannoy  
promyshlennosti (for Dubinskiy, Rossel's). 2. Avtozavod im.Stalina  
(for LakedemonSKIY, Anopova, Khakimdzhanova).  
(Nickel) (Solder and soldering) .

LAKE DEMONSKIY, A.V.

Considered the plating of A. I. Vitol, V. M. Borkh, A. V. ...  
L. Kadenko, M. D. I. Yashnikov, P. A. Myral, V. A. ...  
Shumakov, V. S. Baran, T. P. Plovnikova, P. A. Zhaid, ...  
L. V. Gashko, B. I. Koslovskii, and B. S. Petrova. U.S.S.R. ...  
101,701, Dec. 31, 1955. The side not to be tinned is elec- ...  
troplated with Cr. An app. for the process is described. M. Hesch.

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000928430002-3



APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000928430002-3"



SHPAGIN, Aleksey Ivanovich; VINOGRADOV, S.V., inzhener, retsenzent;  
LAKHDEMONSKIY, A.V., inzhener, retsenzent; EL'KIND, L.M., redaktor  
"izdatel'stva; MIKHAYLOVA, V.V., tekhnicheskii redaktor

[Antifriction alloys] Antifriktsionnye splavy. Moskva, Gos. nauchno-  
tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 320 p.  
(Alloys) (MLRA 9:11)

*LAKEDEMONSKIY, A.V.*

AID P - 4260

Subject : USSR/Engineering

Card 1/1 Pub. 128 - 18/33

Authors : LakedemonSKIY, A. V., Engineer, B. V. Pogozhev, Engineer,  
N. M. Rudnitskiy, Kand. Tech. Sci., and I. Ye. Fokin

Title : Results of operational tests of the new anti-friction  
alloy SOS 6-6.

Periodical : Vest. mash., #1, p. 55-56, Ja 1956

Abstract : The new anti-friction alloy SOS 6-6 is analysed as sleeve  
bearing metal for carburetor engines. Its composition is  
5.5-6.5% Sn, 5.5-6.5% Sb and the rest Pb. This alloy  
proved to be quite satisfactory and much cheaper than the  
previously used tin-base babbitt B-89 and lead-base  
babbitt BT.

Institution : None

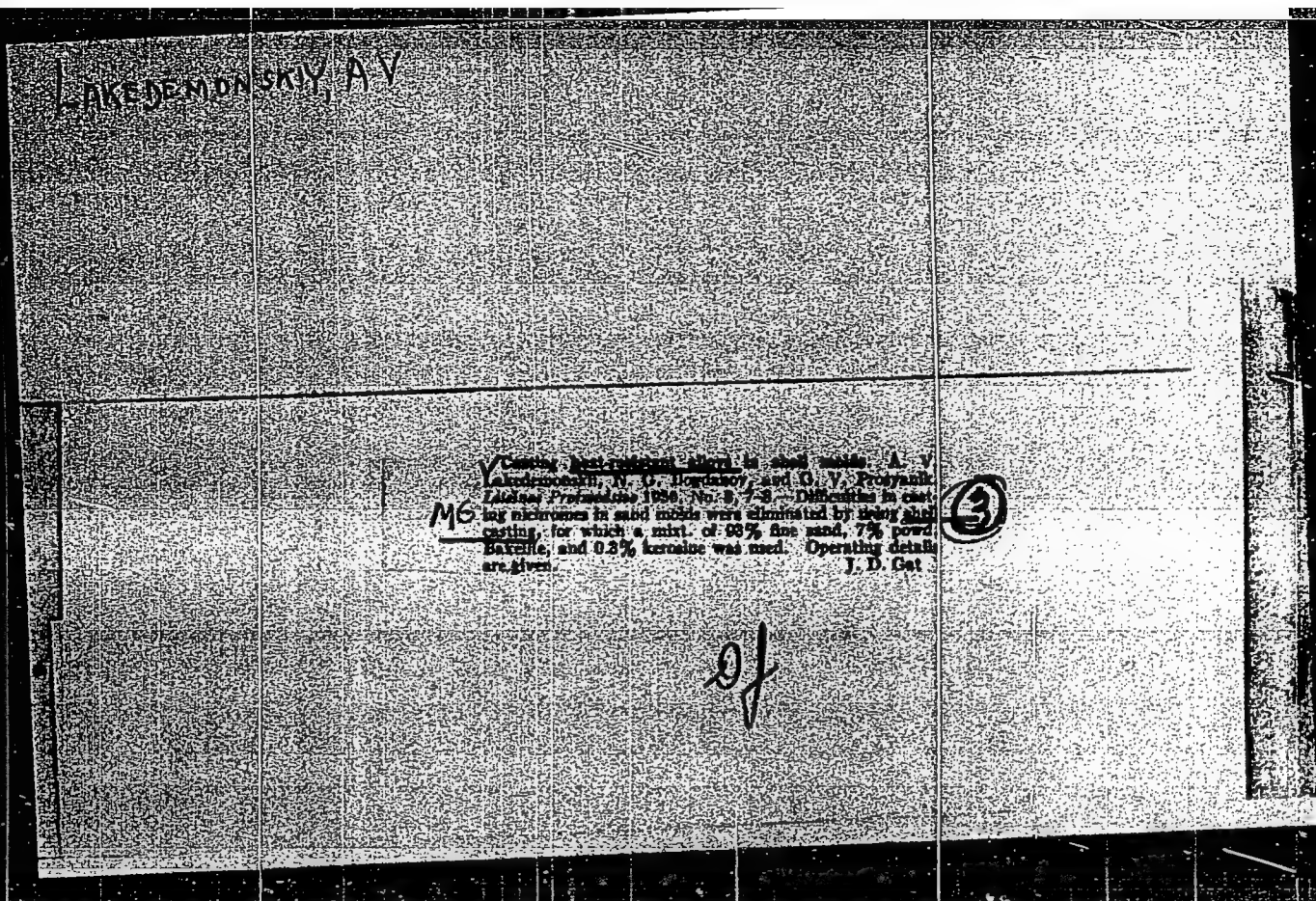
Submitted : No date

LAKEDEMONSKIY, A.V.

New bearing alloy. N. M. Rudnik and A. V. Lakedemon-  
skiy (Stalin Automobile Plant, Moscow). *Avtomobil.  
Traktor. Prom.* 1955, No. 2, 9-12. The proposed alloy  
contains 5-6% Sn and 3-6% Sb, the rest Pb; has a low  
modulus of elasticity which prevents its chipping in use and  
becomes corrosion-resistant in acidified lubricating oil after  
80-80 hrs. 1. D. Gai

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LAKEJEMONSKIY A.V.

0005

Results of testing new antifriction alloy 108 G-6. A.V. Lakejemonski, B.V. Puzosov, A. M. Koshchuk, and E. P. Kozlov. Patent: Metallurgiya, No. 11-65-0 (1956). This Pb alloy contains 5.5-6.5% Sn and 0.5-0.6% Cu. It has a Brinell hardness of 15-16, permitting it to work in well and to abrade abrasive resistance is squeezing out under 10 kg./sq. cm. is quite adequate when used in a 0.2-0.4 mm. layer. Its elastic modulus is 2590 kg./sq. mm. and the absence in its structure of large intermetallic crystals gives it a better resistance to cyclic deformations and, therefore, to chipping in use. J. D. Gil

*[Handwritten signature]*

LAKEDIEMONSKIY, A.Y.; PROSYANIK, G.V.; SOKOV, M.K.; POLYAKOV, Ya.G., red.

[Technology of shell molding; principles of the technological process and the materials] Tekhnologiya lit'ia v obolochkovye formy osnovy tekhnologicheskogo protsesssa i materialy. Moskva, 1957. 30 p. (Peredovoi opyt proizvodstva. Seriya "Mashinostroenie," no.3). (MIRA 11:7)

(Shell molding (Founding))

LAKHEMONSKIY, A.V.; PROSYANIK, G.V.; ANOPOVA, A.I.; SERGEYEV, V.S.

Casting fluid convert parts. Lit.proizv.no.1:18-20 Ja '57.  
(Automobiles--Transmission devices) (Founding) (MIRA 10:3)

SLADKOVA, M.V.; CHEVELA, B.A.; FILIPPOCHKIN, V.G.; LAKEDEMONSKIY, A.V., red.;  
SUKHAREVA, R.A., tekhn.red.

[New way for using soluble glass in casting by the lost-wax process] Novyi sposob primeneniia zhidkogo stekla pri lit'e po vyplavliaemym modeliam. Moskva, 1958. 11 p. (Peredovoi opyt proizvodstva. Seriya "Tekhnologiya mashinostroeniia," no.10: Liteinoe proizvodstvo) (MIRA 12:5)  
(Soluble glass) (Molding (Founding))



PHASE I BOOK EXPLOITATION 1223

Lakedemonskiy, Anatoliy Vladimirovich, and Khryapin, Vladimir Yemel'yanovich

Payaniye i pripoi (Soldering, Brazing, and Filler Metals) Moscow, Metallurgizdat, 1958. 229 p. 9,000 copies printed.

Reviewers: Shpagin, A.I., Candidate of Technical Sciences, Dubinskiy, S.A., Babichev, V.Z., Engineer; Ed.: Chernov, A.N.; Ed. of Publishing House: Durdova, Ye.I.; Tech. Ed.: Karasev, A.I.

PURPOSE: The book is intended for engineers, technicians and skilled workers engaged in soldering and brazing work in machine building, instrument and radio manufacturing and for workers in repair shops and machine tractor stations.

COVERAGE: Soviet and non-Soviet soldering and brazing practices are described and basic theoretical principles are presented. Compositions, properties and methods of preparing soldering and brazing materials and fluxes are discussed. Rules governing the fabrication of soldered and brazed assemblies, soldering and brazing techniques, equipment used, and the technology of soldering and brazing of assemblies made of various metals and alloys are described. Chapters I, II and III were written by A. V. Lakedonskiy and the re-

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# Soldering, Brazing, and Filler Metals

1223

maining chapters by A.V. Lakedemonkiy and V.Ye. Khryapin jointly. The authors thank Candidate of Chemical Sciences S.A. Dubinskiy, Candidate of Technical Sciences A.I. Shpagin and Engineer V.Z. Babichev for their advice in the preparation of the manuscript. There are 54 references of which 37 are Soviet, 11 English, 5 German and 1 French.

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AVAILABLE: Library of Congress

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2-24-59

Card 6/6

SOV/137-58-10-21555

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 157 (USSR)

AUTHORS: Gruzlov, P.Ya., Lakedemon'skiy, A.V., Vasil'yev, Ye.A.

TITLE: A High-strength Sulfurous Cast Iron (Vysokoprochnyy sernistyy chugun)

PERIODICAL: Tekhnol. avtomobilestroyeniya, 1958, Nr 2, pp 13-20

ABSTRACT: Spheroidal form of graphite particles in cast iron is achieved by means of inoculating the molten metal with Mg. Although Mg cast iron possesses good mechanical properties, its application is limited owing to technological difficulties connected with production of high-quality castings of this metal. Inoculation of malleable iron with S makes it possible to obtain cast iron with spheroidal graphite by fairly simple means, permits to speed up the annealing process (by increasing the Si content) and obtain, during heat-treatment procedures designed to produce granular pearlite, a structural material with good mechanical properties. The method developed for the introduction of S into the cast iron is simple and may, therefore, be employed in any foundry shop. 1. Cast iron--Mechanical properties 2. Cast iron--Physical properties 3. Sulfur--Applications A.S.  
4. Magnesium--Metallurgical effects

Card 1/1

~~LAKEDEMONSKIY, A.V.~~; KHRYAPIN, V.Ye.; SHPAGIN, A.I., kand.tekhn.nauk,  
187882801; RYBAKOVA, V.I., inzh., red.; UVAROVA, A.F., tekhn.red.

[Solderer's handbook] Spravochnik paial'shchika. Moskva, Gos.  
nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 352 p.  
(MIRA 12:9)

(Solder and soldering)



ASSONOV, A.D., kand.tekhn.nauk; LAKEDEMONSKIY, A.V.; PROSYANIK, G.V.

Shell molding of gears. Avt.prom. no.1:28-30 Ja '59.  
(MIRA 12:1)

1. Moskovskiy avtozavod imeni Likhacheva.  
(Shell molding (Founding))

SOV/113-59-6-12/21

12(2)

AUTHOR:

Lakedemon'skiy, A.V.

TITLE:

Covering Steel Strip With Bearing Alloy

PERIODICAL:

Avtomobil'naya promyshlennost', 1959, Nr 6, pp 32-34  
(USSR)

ABSTRACT:

It was found that when coating steel strip with the SOS bearing alloy developed by the Moscow Automobile Plant imeni Likhachev, tin from the preliminary hot tinning process was being carried into the tank with the bearing alloy by the steel strip. As a result, the alloy contained 8-10% tin instead of the specified 5.5-6.5%, and an easily fusible triplex eutectic was formed in its structure, weakening it. To avoid this, the plant carried out investigations to see how the preliminary tinning could be dispensed with. As a result of these investigations a new complex flux forming a thin metallic layer over the defective portions of the metal strip was

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SCV/113-59-6-12/21

Covering Steel Strip With Bearing Alloy

developed. It is composed of 350-400 grams per liter of zinc chloride, 40-50 g/l stannous chloride, 4-5 g/l cuprous chloride, 30-35 milliliters per liter hydrochloric acid (density 1.18) and up to 1000 milliliters per liter of water. Tests have shown it to be satisfactory.

ASSOCIATION: Moskovskiy avtozavod imeni Likhacheva (Moscow Automobile Plant imeni Likhachev)

Card 2/2

SOV/128-59-10-5/24

18(5)

AUTHORS:

Bogachev, A.F., Burtsev, A.D., Lakedemouskiy, A.V., Lupanov, B.P.,  
Andrianov, Ye.I., and Sagusyy, V.V., Engineers

TITLE:

Exothermic Mixtures for the Heating of Risers

PERIODICAL:

Liteynoye proizvodstvo, 1959, Nr 10, pp 18-21 (USSR)

ABSTRACT:

The authors present a report on research which has been made on exothermic mixtures for the heating of risers. The qualities of already-known exothermic mixtures were investigated at the beginning of the research. The exothermic mixtures were divided into three groups, according to their oxygen balance of thermite and their chemical and granulate consistence. Bashed which are made of thermite mixture with additions, with coke ashes and with coke dross, give different results during combustion. These results are depending on their consistence, as figs. 1a-v show. Table 1 shows different mixtures, their granularity and the percentage of different components. The technology of preparing materials for mixtures is not complicated. Aluminum chips and dross are at the same time exposed to crushing in grinding mills with the last

Card 1/2

SOV/128-59-10-5/24

### Exothermic Mixtures for the Heating of Risers

sifting through sieves of 1.5 mm. The rest repeatedly goes through a grinding mill. The coke dross goes through a sieve of 6 mm. The bushes (Fig.2) are produced in wooden core moulds (Fig.3). Special standards are elaborated for the dimensions of the bushes (Table 4). Exothermic bushes, which are used in combination with diaphragms, are made in the same core moulds as the usual ones. The difference is that they have a center piece in the lower part of the wooden inset which has the shape of the parting diaphragm and dimensions according to table 7. The exothermic mixtures which are used at MosZIL, are recommended for use in foundry production. A.F. Yurasov, M.I. Averbukh, M.I. Kurlovich, P.S. Romanov, N.P. Gritsko, V.I. Zheltov and P.I. Fedorov participated in this study. There are 5 photographs, 3 diagrams and 9 tables.

Card 2/2

LAKEDEMONSKIY, A.V., red.; STEPANCHENKO, N.S., red. izd-va; UVAROVA,  
A.F., tekhn. red.

[Defects in castings and ways to prevent them; {transations}]  
Defektry otlivok i mer ikh preduprezhdeniia; [doklady]. Pod red.  
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(MIRA 15:7)

1. Nauchno-proizvodstvennaya konferentsiya "Izucheniye prichin  
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(Founding--Defects)

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MOSKVIN, P.P.; ~~LAKEDMONSKIY~~, A.V., inzh., retsenzent; OSIPOVA,  
L.A., inzh., red.; EL'KIND, V.D., tekhn. red.

[Pressure die casting] Lit'e pod davleniem [By] A.K.Belopukhov i  
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(Founding) (Research, Industrial)



SHKOL'NIKOV, E.M.; LAKEDEMONSKII, A.V.; BONDARENKO, L.G.; ABRAMENKO, Yu.Ye.;  
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Cast camshafts for the ZIL-111 engine. Lit. proizv. no.5:7-8 My '62.  
(MIRA 16:3)  
(Automobiles—Engines) (Iron founding)

LAKEDEMONSKIY, A.V.; KHRYAPIN, V.Ye.; SHPAGIN, A. I., kand. tekhn.  
nauk, retsenzent; KUBAREV, V.I., inzh., red.; GARANKINA,  
S.P., red.izd-va; UVAROVA, A.F., tekhn. red.

[Welder's handbook] Spravochnik paial'shchika. Izd.2., perer.  
Moskva, Mashgiz, 1963. 440 p. (MIRA 16:10)  
(Welding--Handbooks, manuals, etc.)

PROSYANIK, Georgiy Vasil'yevich; LAKEDEMONSKIY, Anatoliy Vladimirovich;  
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[Making shell molds] Izgotovlenie obolochkovykh form. Mo-  
skva, Proftekhizdat, 1963. 270 p. (MIRA 16:7)  
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nauk; ABRAMENKO, Yu.Ye., inzh.; BONDARENKO, L.G., inzh.;  
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Cast distributing shafts for forced carburetor engines. Lit.  
proizv. no.12:40-41 D '65. MIRA 18:12)

LAKEDEMONSKIY, A.V., kand.tekhn.nauk; PLENTSOV, G.I., kand.tekhn.nauk;  
SHERMAN, A.D.; ABRAMENKO, Yu.Ye.

Characteristics of the wear of cylinders of motor-vehicle engines.  
Avt.prom. 31 no.4:14-17 Ap '65. (MIRA 18:5)

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ASINOVSKAYA, G.A.; LAKEDEMONSKIY, A.V.; LASHKO, N.F.; LASHKO, S.V.

The terminology of soldering. Trudy VNIIAVTOGENMASH no.12:  
193-199 '65. (MIRA 18:11)

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K. Hubschmann.

(OCCUPATIONAL DERMATITIS etiol)  
(RESINS toxicol)



*LAKERNIK, M.M.*

BAGDASAROV, V.A.; LAKERNIK, M.M.

Electric smelting for matte in copper metallurgy. TSvet.met. 28  
no.3:55-57 My-Je '55. (MIRA 10:11)  
(Copper--Electrometallurgy)

LAKERNIK, Mark Moiseyevich; SEVRYUKOV, Nikolay Nikolayevich; BELYAYEV, A.I.,  
prof., dokt.; retsenzent; VELLER, R.L., kand.tekhn.nauk; retsenzent;  
VANYUKOV, A.V., retsenzent; KROL', L.Ya., retsenzent; SAMSONOV, G.V.,  
retsenzent; LEONIDOV, N.K., inzh., retsenzent; ZHEMCHUZHINA, Ye.A.,  
red.; EL'KINA, L.M., red.izdatel'stva; MIKHAYLOVA, V.V., tekhn.red.

[Metallurgy of nonferrous metals] Metallurgiya tsvetnykh metallov.  
Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi  
metallurgii, 1957. 535 p. (MIRA 11:1)

(Nonferrous metals--Metallurgy)

LAKERNIK, M.M.; SLONIMSKIY, B.I.

Electrothermic smelting of Leket' slags. TSvet. met. 31 no.9:  
28-30 S '58. (MIRA 11:9)  
(Altai Territory--Nonferrous metal industries)  
(Electrometallurgy) (Salvage (Waste etc.)

LAKERNIK, M. M.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 503 - I

Call No.: TN785.L3

BOOK

Author: LAKERNIK, M. M.

Full Title: METALLURGY OF LEAD

Transliterated Title: Metallurgiya svintsa

PUBLISHING DATA

Originating Agency: None

Publishing House: State Scientific and Technical Publishing House of Literature on Ferrous and Nonferrous Metallurgy ("Metallurgizdat")

Date: 1953

No. pp.: 234

No. of copies: 4,000

Editorial Staff

Editor: None

Appraisers: Loskutov, F. M., Prof., Dr., Karchevskiy, V. A., Eng., Chernyak, M. A.

TEXT DATA

Coverage: This book gives information on raw materials used in lead works and refining plants, and on methods of preparing the charge for smelting. It discusses the basic physico-chemical processes occurring during the operations of roasting, sintering and smelting of lead concentrates, and the refining of crude lead. Descriptions of the design, working principles and operation of metallurgical equipment and of the basic safety measures are given. The "Introduction" contains a brief history of the development of lead pro-

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Metallurgiya svintsa

AID 503 - I

duction in Russia and of the contributions of Russian and Soviet scientists in this field. The book is provided with illustrations of furnaces and metallurgical machinery, tables and diagrams.

Table of Contents

Foreword

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Ch. I General Information

7

11-40

(Physicochemical properties of lead and its basic compounds; Uses of lead; Concentrating lead ores; Basic industrial extraction processes)

Ch. II Preparation of Charge

41-59

(Composition and homogeneity; Methods of storage, crushing and transportation of charge components; Methods of measuring and mixing the components. Preparation of charge; Basic safety measures)

Ch. III Roasting and Sintering of Lead Concentrates

60-85

(Preliminary data; Chemistry of roasting and sintering processes; Flow sheets of the roasting process; Working principles and operation of sintering machinery)

Ch. IV Reducing Smelting Process in Shaft Furnaces

86-136

(Changes of charge components in the furnace, slags, charge estimate; Working principles and operation of shaft

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furnaces for lead smelting; Safety measures)	
Ch. V Products of Lead Smelting	137-154
(Crude lead; Copper-lead matte; Slags; Dust removal from gases)	
Ch. VI Refining of Lead	155-202
(Indispensability of the refining process and its flow sheet; Decoppering of lead; Removal of antimony, arsenic, tin, gold, silver, zinc and bismuth from lead; Casting of lead; Brief data on the electrolysis of lead; Safety measures)	
Ch. VII Hearth Smelting	203-209
Ch. VIII Automatic Control of Metallurgical Processes	210-222
Ch. IX Problems of Economics and Organization of Production	223-234
(Socialist organization of production; Preliminary measures and labor organization; Workshop planning; Technical and economic factors of the lead industry and the cost of production)	
Purpose: Approved by the Educational and Methodical Board of the Main Administration of Professional Training of the Ministry of Culture of the USSR as a textbook for trade schools. The book is also	

Metallurgiya svintsa

AID 503 - I

intended for qualified workers in the lead industry.

Facilities: None

No. of Russian and Slavic References: 7 Russian (1940-1952)

Available: Library of Congress

4/4

*Metallurgy*  
**LAKERNIK, M.M.**

SNURNIKOV, Aleksandr Petrovich; PAKHOMOVA, G.N., kandidat tekhnicheskikh nauk, retsenzent; PEYSAKHOV, I.L., kandidat tekhnicheskikh nauk, retsenzent; KOPYTOV, S.A., inzhener, retsenzent; ~~LAKERNIK, M.M.~~ redaktor; ARKHANGEL'SKAYA, M.S., redaktor; VAYNSHTEYN, Ye.B., tekhnicheskii redaktor.

[Hydrometallurgy of zinc] Gidrometallurgiya tsinka. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1954. 255 p. [Microfilm] (MIRA 8:2)  
(Zinc--Metallurgy)



Lake Anita, M. M.

2

The reaction between zinc oxide and iron		27	27	M. 20
Literatur	Sbornik Nauk. Trudy Gruzinsk. Nauch. Inst. Tsel'nykh Met.	1955	No. 10	218-29
Referat	Zhur. Met.	1956	No. 2	287
The reaction between ZnO and Fe at 1000-1250°C was studied by a device that provided continuous weighing. Zn vapor formed during the reactions, was drawn off by a current of N <sub>2</sub> . Energy of activation for ZnO and Fe at 1000°C was 43.7 kcal/mole. For ZnFeO, and Fe the activation energy at 1300°C is 48 kcal/mole.				
ZnO is reduced by Fe as fast as by CO, this is attributed to the presence of oxide of Fe in the reaction products. The addition of inert substances has no effect upon the reaction of ZnO and Fe. At high N <sub>2</sub> pressure.				

LOSKUTOV, Fedor Mikhaylovich, professor, doktor; AGHYENKOV, V.G., professor,  
retsenzent; OL'KHOV, N.P., inzhener, retsenzent; ~~IAKERNIK, M.M.~~  
redaktor; EL'KIND, L.M., redaktor izdatel'stva; BERLOV, A.P.,  
tekhnicheskii redaktor

[Metallurgy of lead and zinc] Metallurgiya svintsa i tsinka. Moskva,  
Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii,  
1956. 478 p. (MIRA 9:12)

(Lead--Metallurgy)

(Zinc--Metallurgy)

LAKERNIK, M.M.

Selecting an efficient diagram for the refining of lead. TSvet.met.29 no.9:  
43-47 S '56. (Lead--Metallurgy) (MIRA 9:10)

*LAKERNIK, MARK MOISEYEVICH*

PHASE I BOOK EXPLOITATION

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- Lakernik, Mark Moiseyevich, Candidate of Technical Sciences; and  
Sevryukov, Nikolay Nikolayevich, Docent, Candidate of Technical Sciences

Metallurgiya tsvetnykh metallov (Metallurgy of Nonferrous Metals)  
Moscow, Metallurgizdat, 1957. 535 p. 8,500 copies printed.

Reviewers: Belyayev, A.I., Professor, Doctor; Veller, R.L., Candidate of Technical Sciences; Vanyukov, A.V.; Krol', L. Ya.; Samsonov, G.V.; and Leonidov, N.K., Engineer; Ed.: Veller, R.L.; Zhemchuzhina, Ye.A.; Ed. of Publishing House: El'kina, L.M.; Tech. Ed.: Mikhailova, V.V.

PURPOSE: This is a textbook for students at nonferrous-metallurgy technicums; it may also be used by foremen and other workers taking special improvement courses.

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Metallurgy of Nonferrous Metals

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COVERAGE: The book sets forth the principles of the metallurgy of nonferrous metals (copper, nickel, lead, zinc, tin, aluminum, magnesium, antimony, and mercury), precious and rare metals, and also iron and steel. In addition, the authors discuss methods of ore concentration, preparation of ores for smelting, types of metallurgical furnaces, production methods, and characteristics of refractories. Chapters II, III, IV, V, VIII, IX, X, XI, XII, XVIII, XIX, XX, XXI, XXIV-XXX were written by Lakernik, M.M.; Chapters I, VI, VII, XIII-XVII, XXII, and XXIII, by Sevryukov, N.N. There are no references.

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\* AUTHORS: Lakernik, M.M. and Slonimskiy, B.I.

TITLE: Electrothermic Smelting of Loktevo Slags (Elektro-termicheskaya plavka loktevskikh shlakov)

PERIODICAL: Tsvetnyye Metally, 1958, Nr 9, pp 28-31 (USSR)

ABSTRACT: The authors mention large waste-slag resources in Altay and some of the attempts made to recover their metal contents. They describe pilot-plant work at Gintsvetmet on the electro-thermic smelting of samples of Loktevo slags in an electric furnace at the Irtyshskiy works. The composition of the samples was: Cu 1.92, Pb 2.78, Zn 3.56, Fe 7.0, S 1.9, SiO<sub>2</sub> 41.08, CaO 10.15, Al<sub>2</sub>O<sub>3</sub> 13.59, MgO 3.38 and BaO 4.98%, Ag 114.8 and Au 2.4 g/ton. Different waste slag compositions were obtained with different smelting conditions (table 1) and from these and material balances (table 2) for copper, lead and zinc together with a consideration of energy requirements, the authors deduce a flow sheet which is economically effective. They suggest that further investigations be made to embrace slags of composition different from those dealt with and that a survey of waste-slag resources be

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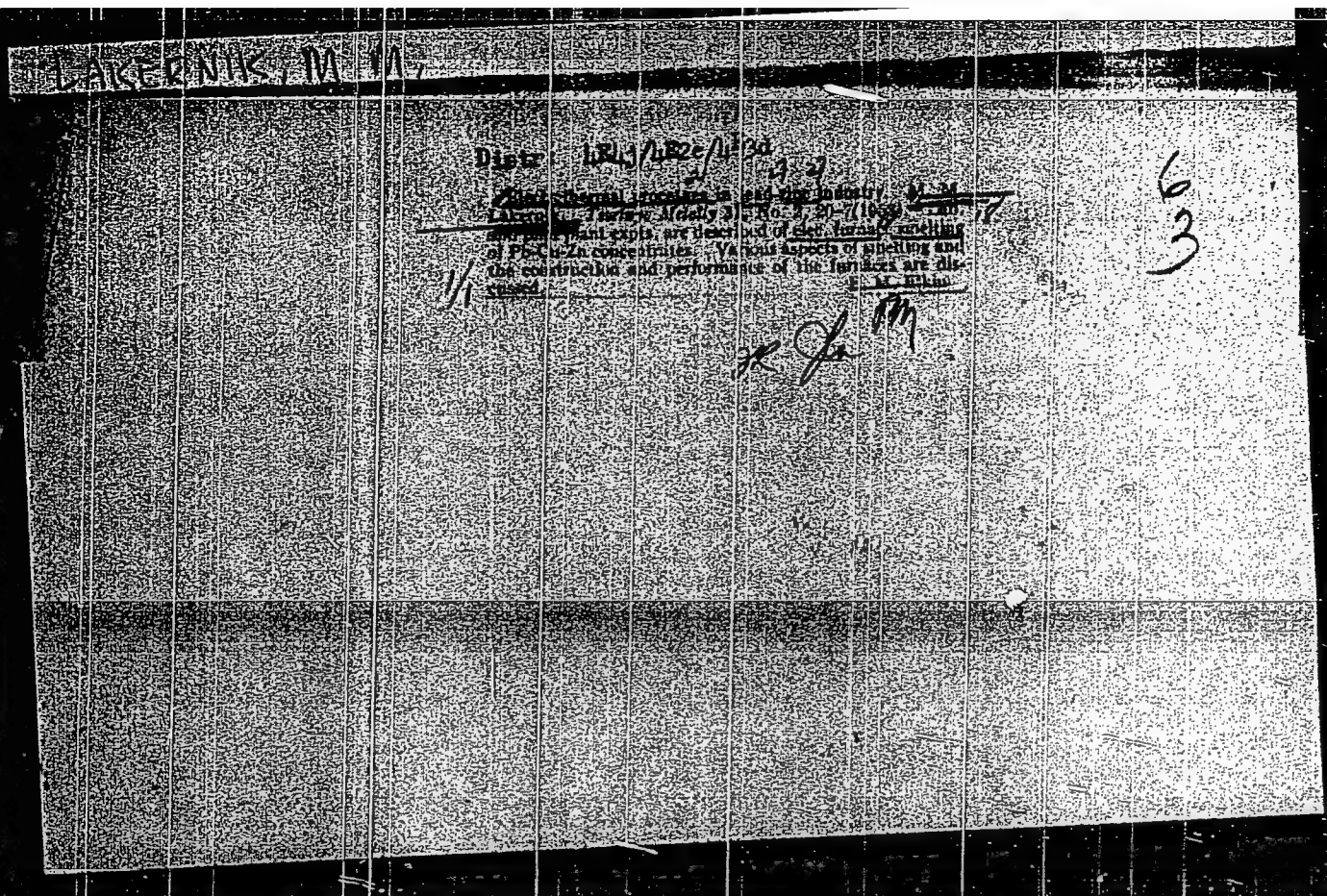
• Electrothermic Smelting of Loktevo Slags

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carried out. The Editor points out that if the high-silica Loktevo slags are mixed with other slags it may be possible to effect the smelting in a shaft furnace.

There are: 1 figure and 2 tables

1. Slags--Processing 2. Slags--Properties 3. Electric furnaces  
Card2/2 --Performance





AZOS, S.; AREF'YEV, A.; ARTAMONOV, I.; BABINA, I.; BEREHOVSKIY, V.; BLOZHKO, V.;  
 BRAVERMAN, A.; BYKHOVSKIY, Yu.; VINOGRADOVA, M.; GALANKINA, Ye.;  
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 TIMKO, Ya.; TITOV, S.; TROITSKIY, A.; TOLOKONNIKOV, K.; TROFIMOVA, A.;  
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Roman Lazarevich Veller; an obituary. TSvet. met. 31 no.5:78-79  
 My '58. (MIRA 11:6)

(Veller, Roman Lazarevich, 1897-1958)

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AUTHORS: Lakernik, M.M. Candidate of Technical Sciences and  
Lavrov, L.G., Fokin, N.A., Engineers

TITLE: Electrothermic Treatment of the Berezhovskiy Complex  
Concentrate (Elektrotermicheskaya pererabotka  
Berezhovskogo kollektivnogo kontsentrata)

PERIODICAL: Tsvetnyye metally, 1959, Nr 6, pp 32 - 38 (USSR)

ABSTRACT: The concentrate used contains 3.5% copper, 7% lead,  
22% zinc, 20% iron, 30% sulphur and 7% silica.  
Laboratory tests showed that it could be successfully  
melted in a sealed electric furnace. After many tests,  
the Irtyshsk Works constructed a furnace for production.  
It is a three-phase 3 000 kVA furnace with internal  
diameter 3 600 mm and hearth area 10 m<sup>2</sup> (Figure 1).  
Graphite electrodes, water cooled in the arch, are used.  
The hearth and wall linings are chrome magnesite and  
the metallic furnace case is sprayed with water.  
Melting occurs with 4.5 - 7.5 thousand amps. The gases  
are sharply cooled in a settling chamber (Figure 2),  
where zinc and lead condense. The furnace is loaded  
mechanically through a bunker (Figure 3). The  
temperature under the arch is 1 100 - 1 150 °C and the

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## Electrothermic Treatment of the Berežovskiy Complex Concentrate

slag temperature 1 300 - 1 350 °C. The furnace is sealed and the pressure regulated automatically by an oil regulator type RDNBI-100. It has been shown that this furnace can be used for complex polymetallic products inaccessible by ordinary metallurgical processes. During the process, 20% lime is added to obtain a slag with the correct properties. The slag contains 0.18% Cu, 0.15% Pb, 2.4% Zn, 14% Fe, 33% SiO<sub>2</sub> and 36.4% CuO. The crude metal contains 20% Cu, 6% Pb, 2.4% Zn, 40% Fe, 22% S. Enough coke is added to produce a gas containing 90% CO which has the correct reducing conditions. The dust obtained from the settling chamber consists of 20% Pb, 70% Zn, 4% S, 0.3% Cd, 0.4% Cu, 0.8% Fe, 1.5% SiO<sub>2</sub> and 0.75% CaO. The advantages of the process are that it is easy to mechanise and good hygienic working conditions are maintained. The disadvantages are that

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Electrothermic Treatment of the  
Berezovskiy Complex Concentrate

the gas is high in carbon monoxide and that the process  
has a high energy capacity which means it can only be  
used where cheap electrical energy is available.  
There are 7 figures.

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